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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,587	07/03/2003	Abhijit G. Shanbhag	M-15227 US	7678
	7590 12/29/2006 N KWOK CHEN & HE		EXAMINER	
2033 GATEWAY PLACE SUITE 400 SAN JOSE, CA 95110			WILLIAMS, LAWRENCE B	
			ART UNIT	PAPER NUMBER
0711110011, 07		•	2611	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		12/29/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/614,587	SHANBHAG ET AL.			
		Examiner	Art Unit			
	<u> </u>	Lawrence B. Williams	2611			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
2a) <u></u>	 Responsive to communication(s) filed on <u>03 July 2003</u>. This action is FINAL. 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 					
Dispositi	on of Claims					
4) ⊠ Claim(s) 1-45 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-45 are subject to restriction and/or election requirement.						
Applicati	on Papers					
10) 🗌	The specification is objected to by the Examine. The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the oreginal statement drawing sheet(s) including the correct	epted or b) objected to by the Idrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice Notice Notice	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims drawn to 1-16, 17-20 classified in class 375, subclass 232-234.
 - II. Claims 21-28, drawn to a method for providing a bandwidth estimate, classified in class 375, subclass 240.
 - III. Claims 29-33, drawn to a method for providing a channel identification, classified in class 375, subclass 144, 346.
 - IV. Claims 34-35, 38-39, drawn to a method for providing an optical-signal-to-noise ratio, classified in class 398, subclass 26.
 - V. Claims 36-37, drawn to a method for providing a bit error rate estimate, classified in class 398, subclass 27.
 - VI. Claims 40-43, drawn to a method for providing a chromatic dispersion estimate, classified in class 398, subclass 147, 148.
 - VII. Claims 44-45, drawn to a method for providing a polarization mode dispersion estimate, classified in class 398, subclass 29.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions 1-16, 17-20 and 21-28; 29-33; 34-35, 38-39; 36-37; 40-43; 44-45 are directed and related to an equalizer. The related inventions are distinct if the (1) the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect; (2) the inventions do not overlap in scope, i.e., are mutually exclusive; and (3) the inventions as claimed are not obvious variants. See MPEP § 806.05(j). In

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the instant case, the inventions as claimed have different modes of operation and are not obvious

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variants. Applicant has presented an equalizer and several modes of operation of the equalizer

which ere not obvious variants of the equalizer. Furthermore, the inventions as claimed do not

encompass overlapping subject matter and there is nothing of record to show them to be obvious

variants.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lawrence B Williams whose telephone number is 571-272-3037.

The examiner can normally be reached on Monday-Friday (8:00-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ghayour Mohammad can be reached on 571-272-3021. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lawrence B. Williams

December 25, 2006